



IHB File S3/8151/CHRIS

CIRCULAR LETTER 36/2007  
3 April 2007

**18<sup>th</sup> CHRIS MEETING**  
**Cairns, Australia, 25-29 September 2006**

- References:
- a) Circular Letter 69/2006 dated 19 October 2006 - Progress Report on the Development of S-100 and S-101
  - b) Circular Letter 77/2006 dated 24 November 2006 - Submission to IMO regarding the requirement for the regular maintenance of ECDIS software
  - c) Circular Letter 85/2006 dated 18 December 2006 - Cooperation Agreement between the IHO and the DGIWG
  - d) Circular Letter 5/2007 dated 12 January 2007 - IHO S-57 Supplement No. 1 (Edition 3.1.1) – Announcement of Document Release
  - e) Circular Letter 20/2007 dated 9 February 2007 - Submission to IMO regarding the Requirement for the Regular Maintenance of ECDIS Software
  - f) Circular Letter 26/2007 dated 1 March 2007 - S-100 Information Paper
  - g) Circular Letter 30/2007 dated 12 March 2007 - Principles and Procedures for making Changes to IHO Technical Standards and Specifications
  - h) Circular Letter 32/2007 dated 14 March 2007 - Improving ENC Consistency

Dear Hydrographer,

The final minutes of the 18<sup>th</sup> CHRIS Meeting held in Cairns, Australia on 25-29 September 2006, as well as all documents referred to at this meeting, are available on the CHRIS page of the IHO website<sup>1</sup> ([www.iho.shom.fr](http://www.iho.shom.fr) > Committees > CHRIS). The Meeting attracted 49 delegates from 21 Member States and four NGOs, and was chaired by Captain Robert WARD (Australia). A list of actions arising from this meeting, with their current status, is provided in **Annex A**. Member States' attention is drawn to the following main points:

Maintenance of ECDIS software (Section 3 of the Minutes)

CHRIS discussed the need for the IHO to request IMO to issue a Safety of Navigation Circular Letter regarding the requirement that ECDIS software be maintained in order to properly display ENC content, especially the new objects being proposed in the S-57 ed 3.1.1 extension. Similarly, improvements in S-52 and the Presentation Library are not generally adopted by previously fielded ECDIS systems. CHRIS agreed to the outline of the text for an IHB Circular Letter requesting Member States' approval to forward such a request to IMO. The specific wording was subsequently refined through a correspondence group consisting of committee members and observers from industry and maritime authorities. See Circular Letters in references b) and e).

---

<sup>1</sup> Digital and/or paper copies of the final minutes can be provided upon request to the IHB ([info@ihb.mc](mailto:info@ihb.mc)).

Report on ECDIS Shortcomings (Section 3 of the Minutes)

In the same vein, CHRIS discussed the role of hydrographic offices, the IHB and the IHO when an ECDIS is found to have serious shortcomings. While CHRIS agreed that a hydrographic office was free to report such findings to the relevant authorities such as maritime authorities, testing agencies, classification societies and ECDIS manufacturers, CHRIS could provide an expert appraisal of the identified shortcomings and advise the IHB on the merits of forwarding such a finding to the relevant authorities.

Following-up of issues raised at the 10<sup>th</sup> WEND Meeting (Sections 4.2 and 9 of the Minutes)

CHRIS noted the items referred from the 10<sup>th</sup> WEND Meeting (11 & 14 September 2006, Monaco) and, in one instance, spent significant time refining and ultimately adopting, as WEND requested, the *CHRIS Principles / Procedures for Making Changes to IHO Standards*. The outcome of these efforts was referred to the IHB for adoption by the IHO as a whole for matters outside the jurisdiction of CHRIS (re: Circular Letter in reference g). In another issue referred by WEND, CHRIS agreed that functions of the Open ECDIS Forum (OEF) essential to the IHO should begin migration to IHO controlled servers. As the OEF requires no funding at this time, CHRIS agreed that future resource requirements for the OEF would be reviewed at future CHRIS meetings.

Following-up of issues raised at the 2<sup>nd</sup> ECDIS Stakeholders' Forum (Section 5 of the Minutes)

Similarly, the discussions during the 2<sup>nd</sup> ECDIS Stakeholders' Forum (ESF) (12-13 September 2006, Monaco), relevant to CHRIS, were addressed. CHRIS agreed that the existing guidance, developed by CHRIS, on the appropriate use of SCAMIN must be applied by all ENC encoders and that the IHB should again stress the importance of this guidance in attaining satisfactory consistency between ENC cells to all Member States and RENCs (re: Circular Letter in reference h). Regarding the ESF concerns on the impact of S-100 and S-101 on ENC production or ECDIS functionality, CHRIS agreed that S-100 would have no impact and that whatever impact S-101 may have will be carefully managed with the widest participation of concerned stakeholders. A revised statement on both S-100 and S-101 would be forthcoming (re: Circular Letter in reference a). CHRIS agreed to title S-100: *The IHO Geospatial Standard for Hydrographic Data*.

Activities of the CHRIS Working Groups (Section 6 of the Minutes)

In the internal work of CHRIS, reports of the various Working Groups were presented and their work program for the 2008-2012 period reviewed for submission to the IHB. In particular,

- The DPSWG was authorized to begin work on a new edition 1.1 of the IHO Data Protection Scheme S-63, with the following characteristics:
  - ✓ There would be no introduction of new features; changes would be kept to a minimum.
  - ✓ The published S-63 guidelines would be included into the standard.
  - ✓ S-63 would be reorganized to group issues specific to the IHB as Scheme Administrator, Data Servers, and OEMs.
  - ✓ There would be a more precise description of correct implementation of the IHO standard.

A draft of the new edition will be submitted to the 19<sup>th</sup> CHRIS Meeting in November 2007 for endorsement. It is intended that e1.1 of S-63 will be published in time for the next edition of the IEC standard 61174 "*ECDIS: Operational and performance requirements, methods of testing and required test results*" to include specific tests to assess compliance with S-63, which is not the case in the current edition of IEC 61174.

- It was agreed to re-establish the Data Quality Working Group (DQWG), which has been dormant for several years, and that a Chair would be sought. In effect, data quality work related to S-100 needs to be undertaken and, currently, TSMAD does not have sufficient experts to deal with this matter. Member States are therefore invited to indicate if they wish to

contribute to DQWG and provide a Chairperson for this WG by filling in the response form at **Annex B**, to be returned to the IHB **by 15 June 2007**. New Terms of Reference for DQWG were agreed at CHRIS/18 and are contained in Annex H to the Minutes.

Supersession of CHRIS Chair (Section 11 of the Minutes)

The CHRIS Chairman announced his retirement from the RAN in July 2007 and therefore the necessity for him to step down as Chairman. A replacement is therefore needed and Member States are requested to indicate if they wish to provide a new CHRIS Chairperson by filling in the response form at **Annex C**, to be returned to the IHB **by 15 June 2007**.

Next CHRIS Meeting and ECDIS Stakeholders' Forum (Section 13 of the Minutes)

The 19<sup>th</sup> CHRIS Meeting will take place from 4 to 9 November 2007 in Rotterdam, The Netherlands, to coincide with EUROPORT 2007 (6-9 November). It will be jointly organized by The Netherlands and UK Hydrographic Offices. It is planned for the 3<sup>rd</sup> edition of the ECDIS Stakeholders' Forum to take place in conjunction with CHRIS/19, provisionally on 6-7 November.

The current list of CHRIS members and observers, as known to the IHB, is provided at **Annex D**. Member States are requested to report any change to this list to the CHRIS Secretary ([mhuet@ihb.mc](mailto:mhuet@ihb.mc)).

On behalf of the Directing Committee  
Yours sincerely,



Rear Admiral Kenneth BARBOR  
Director

Encls: - Annex A Action List from the 18<sup>th</sup> CHRIS Meeting  
- Annex B DQWG Membership and Chairperson Response Form  
- Annex C CHRIS Chairperson Response Form  
- Annex D CHRIS Membership and Observers List

## LIST OF ACTIONS FROM CHRIS/18 AND STATUS

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	STATUS (March 07)
3.	Currency of ECDIS Software	18/1	Using the text at Annex F as a basis, the <b>CHRIS Chair Group</b> to develop a draft Circular Letter inviting MS to support a submission on the maintenance of navigation software updates on ships to IMO at NAV 53 (2007). <b>IHB</b> to take subsequent action with the draft CL.	Done. See CLs 77/2006 and 20/2007.
3.	ECDIS Shortcomings	18/2	<b>CHRIS Chair Group</b> to collate any feedback received about identified shortcomings related to the work of CHRIS, and present proposals to CHRIS.	Ongoing.
3.	NP3 Presentation	18/3	(carried over from CHRIS/17) <b>Chairman SNPWG</b> (Mr. Johannes MELLES, Germany), in liaison with <b>Chairman HGMIO</b> (ALEXANDER), to seek assistance from academia and industry in developing appropriate standards and guidelines for NP3 presentation, through a suitable research project.	TBD
4.2	Changes to IHO Standards	18/4	<b>IHB</b> to consider using the revised <i>CHRIS Principles and Procedures for Making Changes to IHO Standards and Specifications</i> as a basis for a proposal to be put before the 17 <sup>th</sup> IHC, for their IHO-wide implementation.	Done. See CL 30/2007.
4.4	Emergency Wreck Marking Buoy	18/5	<b>IHB</b> to contact IALA: a. seeking clarification whether it is expected that the Emergency Wreck Marking Buoy will be shown on charts, and b. drawing attention to the Cooperation Agreement between the two organizations and encouraging greater liaison and advance warning on similar IALA initiatives in the future.	In progress.
4.4	Emergency Wreck Marking Buoy	18/6	<b>Chairmen CSPCWG, TSMAD and CSMWG</b> to include "Charting / Display of Emergency Wreck Marking Buoy" in the work programmes for their WGs, as a matter of urgency.	Done.
4.5	ISO Copyright	18/7	<b>Chairman TSMAD</b> to prepare a draft letter for IHB to forward, seeking clarification from ISO and a relaxation of the 10% rule with respect to using ISO copyright material in IHO standards, which in turn will be registered with ISO.	TBD

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	STATUS (March 07)
4.6	IHO-DGIWG OA	18/8	<b>IHB</b> to send the revised draft IHO-DGIWG Cooperation Agreement by CL, asking for its endorsement by MS.	Done. See CL 85/2006.
4.7	IEC 62376	18/9	<b>IHB</b> to look into the possibility of including a copy of the latest draft of IEC 62376 with CHRIS/18 minutes.	Not yet available.
5.	ENC Consistency	18/10	<b>IHB</b> in conjunction with <b>Chairman TSMAD</b> to prepare a Circular Letter reminding IHO Member States that IHO guidance on the use SCAMIN exists (re: CL 47/2004) and should be followed, and stressing the consequences of not applying SCAMIN appropriately.	Done. See CL 32/2007.
5.	IHO website	18/11	<b>IHB</b> to continue revision of the IHO website to enable all ECDIS-related documents to be accessible from an identifiable central location.	Done. See ENC/ECDIS > ECDIS
5.	S-100	18/12	<b>CHRIS Chair Group</b> to prepare a draft Circular Letter, referring to the S-100 Information Paper under revision and stressing that the publication of S-100 will have no impact on ECDIS. <b>IHB</b> to take subsequent action with the draft CL.	Done. See CL 69/2006.
5.	S-100 Information Paper	18/13	<b>Chairman TSMAD</b> to coordinate the updating of the IHO Information Paper on S-57 Ed.4, taking into account the current development of S-100. <b>IHB</b> to subsequently post the revised paper on the IHO website and inform MS by CL.	Done. See CL 26/2007.
5.	S-101	18/14	<b>CHRIS CG</b> to prepare a draft CL on S-101. <b>IHB</b> to take subsequent action with the draft CL.	Done. See CL 69/2006.
6.1	DQWG Chair	18/15	<b>IHB</b> , in consultation with <b>Chairman TSMAD</b> , to seek nominations for DQWG Chair.	Done. See CL 36/2007.
6.1	Feedback for ECDIS Stakeholders	18/16	<b>Secretary</b> to incorporate a new standing agenda item for CHRIS meetings: <i>“Review of Potential Feedback Items for ECDIS Stakeholders”</i> .	Will be included in Agenda for CHRIS/19.
6.2	e3.1.1 input to IEC 61174	18/17	<b>Chairmen of CSMWG and TSMAD</b> to collate information on e3.1.1 matters requiring consideration by IEC, and present it to CHRIS/19 for endorsement, prior to forwarding to IEC/TC80 by late 2007, for inclusion in the next edition of IEC 61174.	TBD

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	STATUS (March 07)
6.2	e3.4 of S-52	18/18	<b>Chairman of CSMWG</b> to monitor the development of e3.4 of S-52, for presentation to CHRIS/19.	In progress.
6.2	ECDIS terms in S-32	18/19	<b>Secretary</b> to ascertain that ECDIS-related terms are incorporated in S-32 before e3.4 of S-52 is published.	Done.
6.3	e1.1 of S63	18/20	<b>IHB</b> , in consultation with <b>Chairman DPSWG</b> , to issue a CL reporting on the development of S63 e1.1.	Done. See CL 36/2007.
8.3	CHRIS ToRs	18/21	<b>CHRIS Chair</b> to submit amended ToRs to the 17 <sup>th</sup> IHC for approval.	Done.
8.3	CHRIS WG ToRs	18/22	<b>Secretary</b> to amend WG ToRs to incorporate agreed changes.	Done.
9.	OEF Migration	18/23	<b>IHB</b> and <b>OEF Manager</b> to begin the migration of IHO functions currently operated on the OEF, to other IHO-sponsored servers over the next 12 months. Existing IHO funding allocations may be used to support any requirements.	In progress.
10.2	IEHG and TSMAD	18/24	<b>IHB</b> to write to IEHG formally, inviting them to participate in TSMAD work.	In progress.
11.	CHRIS Chairmanship	18/25	<b>IHB</b> to seek for a new Chairperson of CHRIS.	Done. See CL 36/2007.
13.	CHRIS/19	18/26	<b>UK</b> and <b>Netherlands</b> to organize the 19 <sup>th</sup> CHRIS meeting.	In progress.

**CHRIS Data Quality Working Group (DQWG)**

**Chairperson and Membership**

RESPONSE FORM

*(to be returned to the IHB by 15 June 2007*

*E-mail : [info@ihb.mc](mailto:info@ihb.mc) – Fax : +377 93 10 81 40)*

**Note :** One response is requested per Member State.

**Member State:** .....

1) Do you wish to propose a candidate as DQWG Chairperson, effective 1<sup>st</sup> July 2007?

YES  NO

If yes, name of candidate .....

2) If not, do you wish to suggest the name of another Member State’s representative?

YES  NO

If yes, name of Member State’s representative: .....

3) Do you wish to propose a candidate as DQWG member?

YES  NO

If yes, name of representative: .....

Comments : .....

.....

Signature .....

Date: .....

**COMMITTEE ON HYDROGRAPHIC REQUIREMENTS FOR INFORMATION SYSTEMS  
(CHRIS)**

**Chairperson**

RESPONSE FORM

*(to be returned to the IHB by 15 June 2007*

*E-mail : [info@ihb.mc](mailto:info@ihb.mc) – Fax : +377 93 10 81 40)*

**Note :** One response is requested per Member State.

**Member State:** .....

1) Do you wish to propose a candidate as CHRIS Chairperson, effective 1<sup>st</sup> July 2007?

YES

NO

If yes, name of candidate .....

2) If not, do you wish to suggest the name of another Member State's representative?

YES

NO

If yes, name of Member State's representative: .....

Comments : .....

.....  
.....  
.....  
.....  
.....

Signature .....

Date: .....



**CHRIS MEMBERSHIP AND OBSERVERS LIST**  
(March 2007)

Member States	Name	Email
Australia	Capt. Robert E. WARD ( <b>Chair</b> )	<a href="mailto:Robert.Ward@hydro.gov.au">Robert.Ward@hydro.gov.au</a>
Brazil	Capt. Norberto S. BENTO Cdr. Luiz Carlos TORRES	<a href="mailto:norberto@chm.mar.mil.br">norberto@chm.mar.mil.br</a> <a href="mailto:torres@chm.mar.mil.br">torres@chm.mar.mil.br</a>
Canada	Mr. Don VACHON	<a href="mailto:VachonD@dfm-mpo.gc.ca">VachonD@dfm-mpo.gc.ca</a>
Chile	LtCdr. Juan CUNEO	<a href="mailto:jcuneo@shoa.cl">jcuneo@shoa.cl</a>
China	Mr. ZHENG Hepping	<a href="mailto:hydro@msa.gov.cn">hydro@msa.gov.cn</a>
Cuba	Eng. J.C. MARANTE Cabrera	<a href="mailto:internacional@geocuba.co.cu">internacional@geocuba.co.cu</a> <a href="mailto:onhg@enet.cu">onhg@enet.cu</a>
Denmark (FRV)	Mr. Arne NIELSEN	<a href="mailto:arn@fomfrv.dk">arn@fomfrv.dk</a>
Denmark (KMS)	Mr. Jan WALSETH	<a href="mailto:jaw@kms.dk">jaw@kms.dk</a>
Ecuador	Cdr. Humberto GOMEZ	<a href="mailto:inocar@inocar.mil.ec">inocar@inocar.mil.ec</a>
Estonia	Mr. Tõnis SIILANARUSK	<a href="mailto:tonis@vta.ee">tonis@vta.ee</a>
Finland	Mr. Juha KORHONEN	<a href="mailto:Juha.Korhonen@fma.fi">Juha.Korhonen@fma.fi</a>
France	Ing. en chef Michel EVEN	<a href="mailto:even@shom.fr">even@shom.fr</a>
Germany	Mr. Horst HECHT Mr. Mathias JONAS Mr. Johannes MELLES	<a href="mailto:Horst.Hecht@bsh.de">Horst.Hecht@bsh.de</a> <a href="mailto:Mathias.Jonas@bsh.de">Mathias.Jonas@bsh.de</a> <a href="mailto:Johannes.Melles@bsh.de">Johannes.Melles@bsh.de</a>
Greece	Mr. Alexis HADJANTONIOU	<a href="mailto:dcd@hnhs.gr">dcd@hnhs.gr</a>
India	Shri Rajesh KUMAR	<a href="mailto:in的角度@dataone.in">in的角度@dataone.in</a>
Indonesia	<i>To be determined</i>	<a href="mailto:info@indo.net.id">info@indo.net.id</a>
Italy	Lt. Cdr. Massimiliano NANNINI	<a href="mailto:nanninim@marina.difesa.it">nanninim@marina.difesa.it</a>
Japan	Mr. Toru KAJIMURA	<a href="mailto:Tooru-Kajimura@kaiho.mlit.go.jp">Tooru-Kajimura@kaiho.mlit.go.jp</a> <a href="mailto:ico@jodc.go.jp">ico@jodc.go.jp</a>
Korea, Rep. of	Mr. OH SOON BOK	<a href="mailto:choish@nori.go.kr">choish@nori.go.kr</a>
Mexico	<i>To be determined</i>	<a href="mailto:hidrografia.mexico@gmail.com">hidrografia.mexico@gmail.com</a>
Netherlands	Mr. Erwin WORMGOOR Mr. René van GEESBERGEN	<a href="mailto:E.WORMGOOR@mindef.nl">E.WORMGOOR@mindef.nl</a> <a href="mailto:support@hydro.nl">support@hydro.nl</a>
New Zealand	Mr. Michael FARRELL	<a href="mailto:mfarrell@linz.govt.nz">mfarrell@linz.govt.nz</a>
Norway	Dr. Ole B. KVAMME Mr. Odd BREIVIK	<a href="mailto:ole.b.kvamme@statkart.no">ole.b.kvamme@statkart.no</a> <a href="mailto:odd.breivik@statkart.no">odd.breivik@statkart.no</a>
Portugal	Lt. António Martins PINHEIRO	<a href="mailto:ceno@hidrografico.pt">ceno@hidrografico.pt</a>
Russia	Capt. EGOROV	<a href="mailto:Gunio@homepage.ru">Gunio@homepage.ru</a>
Singapore	Mr. Parry OEI ( <b>Vice Chair</b> )	<a href="mailto:parry@mpa.gov.sg">parry@mpa.gov.sg</a>
South Africa	Capt. Abri KAMPFER	<a href="mailto:hydrosan@iafrica.com">hydrosan@iafrica.com</a>
Spain	Cdr. Angel CHANS	<a href="mailto:ihmesp@fn.mde.es">ihmesp@fn.mde.es</a>
Sweden	Mr Åke MAGNUSSON	<a href="mailto:Ake.Magnusson@sjofartsverket.se">Ake.Magnusson@sjofartsverket.se</a>
UK	Mr. Chris SMITH Mr Peter JONES	<a href="mailto:Chris.Smith@ukho.gov.uk">Chris.Smith@ukho.gov.uk</a> <a href="mailto:Peter.Jones@ukho.gov.uk">Peter.Jones@ukho.gov.uk</a>
USA (NGA)	RAdm Christian ANDREASEN	<a href="mailto:Christian.Andreasen@nga.mil">Christian.Andreasen@nga.mil</a>
USA (NOAA)	Mr. Dave ENABNIT	<a href="mailto:Dave.Enabnit@noaa.gov">Dave.Enabnit@noaa.gov</a>
USA (NOO)	Mr. Max VAN NORDEN	<a href="mailto:VannordenM@navo.navy.mil">VannordenM@navo.navy.mil</a>
USA (USCG)	Mr. Jim RADICE	<a href="mailto:JRadice@navcen.uscg.mil">JRadice@navcen.uscg.mil</a>
USA (ACOE)	Mr. Tony NILES	<a href="mailto:Anthony.R.Niles@erdc.usace.army.mil">Anthony.R.Niles@erdc.usace.army.mil</a>

IHB	Name	Email
	RAdm. Kenneth BARBOR Michel HUET ( <b>Secretary</b> )	<a href="mailto:kbarbor@ihb.mc">kbarbor@ihb.mc</a> <a href="mailto:mhuet@ihb.mc">mhuet@ihb.mc</a>

Observers	Name	Email
DGIWG	Mr. Herman DOHMANN	<a href="mailto:DohmannH@nima.mil">DohmannH@nima.mil</a>
IC - ENC	Mr. Graham SAUNDERCOCK	<a href="mailto:Graham.Saundercock@ic-enc.org">Graham.Saundercock@ic-enc.org</a>
IEC & CIRM	Mr. Michael RAMBAUT Mr. Tor A. SVANES	<a href="mailto:mr@cirm.org">mr@cirm.org</a> <a href="mailto:svanes@C-Map.no">svanes@C-Map.no</a>
IEC/TC80/WG7	<i>To be determined</i>	<a href="mailto:IRyan@TheSkipr.com">IRyan@TheSkipr.com</a>
OEF & HGMIO	Dr. Lee ALEXANDER	<a href="mailto:Lee.Alexander@unh.edu">Lee.Alexander@unh.edu</a>
IMO	Capt. Gurpreet SINGHOTA	<a href="mailto:gsinghota@imo.org">gsinghota@imo.org</a>
GEBCO	Dr Walter SMITH	<a href="mailto:Walter.Smith@noaa.gov">Walter.Smith@noaa.gov</a>
IOC Secretariat	Dr. Dmitri TRAVIN	<a href="mailto:d.travin@unesco.org">d.travin@unesco.org</a>
PRIMAR - Stavanger	Mr. Robert SANDVIK	<a href="mailto:Robert.Sandvik@primar.org">Robert.Sandvik@primar.org</a>
RTCA	Mr. Michael BERGMANN	<a href="mailto:Michael.Bergmann@jeppesen.com">Michael.Bergmann@jeppesen.com</a>
RTCM	Mr. Fred GANJON	<a href="mailto:fganjon@starpower.net">fganjon@starpower.net</a>